## \*111579\*

Page 1

January-15-14				<b>~</b> 1 1	15/A"						
Revision ID:	D3492-1 Plug		*	Accept	*N900	040	100	<b>)*</b>	Setup Start	· 1 VI	S1* S2*
	1/15/14	<b>Start Qty:</b> 160.00 <b>Req'd Qty:</b> 160.00			Cust Item Customer:	ID:					
Approvals:	Process Pla	an: MJ				ate:	<del>-</del>	1	Run Star Stop	^1\ <u>\</u>	R1*
	QC:		_ Date:	SPC (Y/N):	D	ate:				*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Re	vision Nbr									
D3492	Е										
100 <b>*1</b>	0 11	Hardinge CNC LATHE  Memo		0.00				BT	(4-0	(-20	(X17
Hardinge CNC Lath	ie Smaii	Dwg Rev:_ Folio Rev:_	er Folio FA633 & Dwg	D3492							
110		QC2- Inspect parts off n	nachine FAI/FAIB	0.00				2/			
*110* QC Quality Control		Мето		0.00				14	14-0	1-20	-
			ľ								
120		QC8- Inspect parts - sec	cond check	0.00				173			
*1 20* QC Quality Control		Memo		0.00	14-1-	23		112	<u> </u>		

NCR:	Yes	/ No				<b>WORK ORDER NON-</b>	CO	NFORM	MANCE / UP	DATE			
									•		QA Closed:	Da	ite:
Work Orde	er: _					DISPOSITION	_				EPARTMENT	_	
Part I	-					Rework Scrap Use-as-is		ľ	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-4	Water Jet d. Eng. Coor. re/Packaging	Quality Other
NCR I	-		<b></b>			Work Order Update			Large Fab	Composite		Supplier	
Root Cause		Date	Step	Qty		ption of work order update or Non-conformance		Initial nief Eng		tion ription	Sign & Date	Verificatio	n QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved							FALL	LT CATE	GORY				
Landi	ing G	iear				General							
		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio Ripples in	Crimped at n Strip in		D/S	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		4	on Incomplete ions Incomplete/ nance led	Unclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V Power Loss,	ct issing Wrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
1	1	Torque M	Javes in F	extrusion	, I	Drawing	- 1	Lout of C	alibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

## \*111578\*

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January-15-14	1:18:39 PM						,						
Item ID: Revision ID:	D3492-1			Accept	*	1900	<b>040</b>	100	)* s	etup Start	171	S1* S2*	
Item Name:	Plug		J. 4 0 0 J	<u>.</u>	•						171	<b>.</b>	
Start Date:	1/15/14	<b>Start Qty:</b> 160.00	*160*			Cust Item I	D:						
Required Date	<b>:</b> 1/31/14	Req'd Qty: 160.00	*160*	k	1	Customer:							
Reference:								_	10	Store			
Approvals:	Process Pl	an: Date	•	Teoling:	,	Da	ıte:		К	tun Star	~! <i>\</i> J	R1*	
	QC:	Date	:	<b>SPC</b> (Y/N):		Da	nte:			Stop	′ *N	R2*	
Sequence ID/ Work Center	ID ·	Operation Description		Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
150		Chemical Conversion Coat per QS	51005 4.1	0.00					, –	~ ~	A	<del></del>	
*150* HandFinish		Memo		0.00					17	<u> </u>	614	<u> </u>	_
Hand Finishing										ı			
160		White Gloss(Ref:4.3.5.1) per QSI	005 4.3-Alum	0.00					, am		/	. DA	S
*160*		M 126 834.							173	& M	1. [-]8	DA 34	4
Powdercoat		Memo		0.00						•		94	B
Powder Coating		(Flat End Only) START TIME: OVEN TEMPERATU FINISH TIME:	7:55 JRE:5.7 8:25	DAS 27									
170		QC3- Inspect Part Finish		0.00 9-89	<b>,</b>				h-12				
*17 <b>0</b> *		Memo		0.00 IU/	108	÷			110				_
Quality Control													

NCR:	Yes	/ No				<b>WORK ORDER NON-</b>	COI	<b>NFORM</b>	/ANCE / UPDATE					
											QA Closed:	Da	te:	
Work Ord	er:					DISPOSITION			AGAI	NST DE	PARTMENT	/PROCESS		
Part I	No.					Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Crosst  Machining Small  noforming Finish  Large Fab Compo	Fab		Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
			1				_					· ·		
Root		Data	Cton			ption of work order update or Non-conformance	1	Initial	Action		Sign &	Verificatio	_	OC Inspector
Cause	$\vdash$	Date	Step	Qty	(	or Non-conformance	Cr	ief Eng	Description		Date	vernicatio	11	QC Inspector
Doc/Data	Н												Ì	
Equip/Tooling Operator	Н		İ											
Material	Н													
Setup	Н						1							
Other	H						1							
Process	H							:			1			
Supplier	Н						1							
Training	П		1											
Unapproved													ļ	
			•	•	· · · · · · · · · · · · · · · · · · ·	F	AUI	T CATE	SORY		<u>.                                    </u>	<del> </del>		•
Landi	ing (	Gear				General								
		Bending				Bend		Grain			Ovalized			Pressure/Forced
		Centre N	ot Concei	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance		Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorre	ct		Weld
		Crushed/	Crimped			Burrs		Instruct	ions Incomplete/Unclear		Part Lost/M	issing		Wrong Stock Pulled
		Cuffs				Contamination		Mainte	nance		Part Moved			-
		Heat Trea	ət			Countersink		Mislabe	led		Positioned V	Vrong		_
		Inspectio	n Strip in	Tube		Cut Too Short		Misreac			Power Loss/	Surge		Other
		Ripples in	n Bend			Drill Holes		Offset		<u></u>				

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 111578

\*111578\*

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January-15-14 1:18:39 PM

Required Date: 1/31/14

Item ID:

**Revision ID:** 

D3492-1

Accept

\*N900040100\*

Setup Start

Stop

**Item Name:** Start Date:

Plug 1/15/14

**Start Oty:** 160.00 Req'd Oty: 160.00 \*160\* \*160\*

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan:

Date:

Date:

Tooling:

Date:

Date:

Start

Run

Sequence ID/

Work Center ID

QC:

Operation **Description**  Set Up/ **Run Hours**  **Tool ID** 

Tool # Plan Accept Code Qty

Reject Reject Oty Number

Stop

Insp.

\*120\*

Packaging

Identify as per dwg & Stock Location: [ ].

0.00

SPC (Y/N):

JU 11/04/25

Stamp

Packaging

Memo

0.00

190

180

OC21- Final Inspection - Work Order Release

0.00

\*100\*

Memo

0.00

MUJ 14-01-28

Quality Control

NCR:	Yes	/ No				WORK ORDER NON-	·COI	NFORM	/IANCE / UPD	ATE	QA Closed:	Date	a·
						DISPOSITION				AGAINST DE			
Work Ord	- . No.					Rework Scrap Use-as-is Work Order Update		f Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	Pro	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root		<u>-</u>			Descri	ption of work order update		Initial	Actio	on	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ct	nief Eng	Descri	ption	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved							FAUI	LT CATE	GORY				
Landi	ing G	ear				General							
		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio Ripples in	'Crimped at In Strip in		o/s	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		4	on Incomplete ions Incomplete/Ui nance led	nclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V Power Loss/	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
1	1 1	Torque M	Vaves in F	ytrusio	n I	Drawing	ı	Out of C	Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

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January-15-14 1:18:38 PM

Work Order ID:

111578

Parent Item:

D3492-1

Parent Item Name:

Plug

**Start Date: 1/15/14** 

Required Date: 1/31/14

Start Qty: 160.00

Required Qty: 160.00

**Comments:** 

IPP Rev:A 11.04.19 per dwg revC DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6R0.625		Purchased	No			100	f	41.7500	0.0625	10.52632			
6061-T6 Round Bar .625"				Location		Loc Qty	<u>Lo</u>	c Code		4	14-0	1-20	
				MAT012		41.75							
				m12	6726	41.75			<u>(0.5</u>	53_			

.

.

.

									DQA:	Date:	
NCR: Y	es / No				<b>WORK ORDER NON-C</b>	ONFOR	MANCE / UP	DATE			
									QA Closed:	Date:	
Work Orde	er.				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Work Orde					Rework		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	lo				Scrap		Machining	Small Fab	-1	d. Eng. Coor.	Quality
					Use-as-is	The	moforming	Finishing	Rec/Sto	re/Packaging	Other
NCR N	lo				Work Order Update	]	Large Fab	Composite	]	Supplier	]
Root				Descri	ption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty	(	or Non-conformance	Chief En	g Desc	cription	Date	Verification	QC Inspector
Doc/Data		į				1					
Equip/Tooling											
Operator											
Material											
Setup											
Other							,				
Process											
Supplier			1	:							
Training											
Unapproved											
	<del></del>				F/	<b>AULT CAT</b>	EGORY				
Landir	ng Gear			_	General				_		_
	Bending			L	Bend	Grain			Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to	o/s	BOM/Route	Hardv	<i>r</i> are		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspe	tion Incomplete		Part Incorre	ct	Weld
	Crushed/	Crimped			Burrs	Instru	ctions Incomplete/	/Unclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs				Contamination	Main	tenance		Part Moved		_
	Heat Trea	at			Countersink	Mislal	peled		Positioned \	<b>V</b> rong	_
	Inspectio	n Strip in	Tube		Cut Too Short	Misre	ad		Power Loss/	'Surge	Other
	Ripples in	n Bend			Drill Holes	Offset				<u></u>	

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order:	111238
Description: Plug	Part Number:	D3492-1
Inspection Dwg: D3492 Rev: DE		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.060	+/-0.005	,057				
0.060	+/-0.005	.058				
Ø0.394	+/-0.010	,393				
Ø0.625	+/-0.010	.625	. —			
0.090	+0.000/-0.002	.090				
0.500	+/-0.010	.499				
0.050	+0.000/-0.002	.049				
0.050 x 20°	+/-0.010	. 050				

Measured by:	Audited by:	12	Preliminary Approval:	
Date: 14-01-20	Date:	14-1-20	Date:	

Rev	Date	Change	Revised by Approved
Α	06.06.02	New Issue P/O D3492-041	KJ/JLM
В	06.10.16	Ø0.625 was Ø0.500	KJ/JLM
С	07.11.23	Tolerances revised	KJ/EC/DD
D	08.06.19	0.050 x 20° dimension added	KJ/DD \\ \\ \
E	11.07.26	Dimensions updated per Dwg Rev D	KJ 😽

D3492-XX PLUG (SEE TABLE)--NAS1611 O-RING (SEE TABLE)

D3492-XXX PLUG PARTS LIST

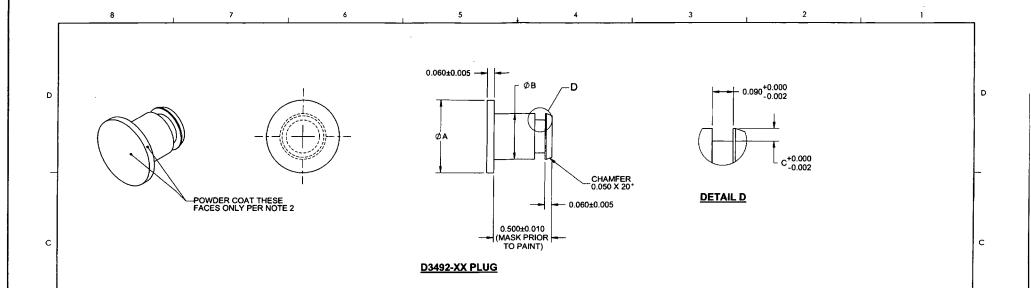
					2040	<u> </u>	, I L C	G FARIS LIST		
QTY -041	QTY -043	QTY -045	QTY -047	QTY -049	QTY -051	QTY -053	QTY -055	PART NUMBER	DESCRIPTION	
Х			l					D3492-041	PLUG ASSEMBLY	_
	X							D3492-043	PLUG ASSEMBLY	
		Х						D3492-045	PLUG ASSEMBLY	
			Х					D3492-047	PLUG ASSEMBLY	
				Х				D3492-049	PLUG ASSEMBLY	
				Ĺ	X			D3492-051	PLUG ASSEMBLY	
					l	Х		D3492-053	PLUG ASSEMBLY	╝.
							Х	D3492-055	PLUG ASSEMBLY	<u>/£</u> \
	L				<b> </b>			D0400.4	50.00	_
1								D3492-1	PLUG	
	1							D3492-3	PLUG	_
		1						D3492-5	PLUG	
			1					D3492-7	PLUG	_
				1				D3492-9	PLUG	_
					1			D3492-11	PLUG	_
						1		D3492-13	PLUG	-J ,
							1	D3492-15	PLUG	_(£)
		1						NAS1611-005	O-RING	-
			1					NAS1611-007	O-RING	_
1								NAS1611-010	O-RING	$\dashv$
•						1		NAS1611-012	O-RING	
	1							NAS1611-013	O-RING	
					1		1	NAS1611-015	O-RING	
				1				NAS1611-016	O-RING	$\neg$

 $\frac{\text{NOTES};}{1) \text{ O-RING: POSSIBLE SUPPLIER P/N: NAS1611-XXX OR PARKER } 2\text{-XXXX}}$ 

111578MLJ 140117

Ε	ADD -055 PLUG ASSY & -15 PLUG	AP	13.08.08
D	INCORPORATED DEO D3492-C-1. SHT 2 DIM C FOR -1 WAS 0.055. (SEE CAR11-048)	AJS	11.05.24
С	ADD -049/-051/-053, CHANGE DRAWING FORMAT	PH	07.10.05
В	ADD -047; UPDATE DIM A FOR -045	PH	06.05.11
Α	NEW ISSUE	PH	06.01.04
REV.	DESCRIPTION	BY	DATE

DESIGN	PH	DART AEROSPACE LTD		
DRAWN	AP	HAWKESBURY,	ONTARIO, CANADA	
CHECKED	A55	DRAWING NO.	REV. E	
MFG. APPR.	N	D3492	SHEET 1 OF 2	
APPROVED	149	TITLE	SCALE	
DE APPR.	-#	PLUG	NTS	
DATE 13.0	80.80	COPYRIGHT © 2007 BY DART AEROSPACE LTD.  THIS DOCUMENT IS PROVIDE AND COMP REPORTING AND IS SUPPLIED ON THE EMPRICAS CONDITION THAT IT IS  NOT TO BE USED FOR ANY PURPOSE OR COPPED OR COMPANIAL TIES ON YOTHER PERSON WITHOUT  WRITTEN PERSONSION FROM DART ABROSPACE LTD.		



## **D3492-XX PLUG MACHINING DETAILS**

P/N	A	В	C	MATERIAL SPEC	-
D3492-1	0.625	0.394	0.050	M6061T6R0.625	٦
D3492-3	0.750	0.582	0.045	M6061T6R0.750	7
D3492-5	0.375	0.188	0.045	M6061T6R0.375	٦
D3492-7	0.500	0.270	0.045	M6061T6R0.500	٦
D3492-9	0.938	0.750	0.045	M6061T6R1.000	٦
D3492-11	0.850	0.664	0.045	M6061T6R0.875	٦
D3492-13	0.750	0.510	0.045	M6061T6R0.750	٦
D3492-15	0.850	0.640	0.050	M6061T6R0.875	٦

NOTES:	
) MATERIAL: ALUMINUM 5052-H32 OR 6061-T6 OR 1100-0 PER QQ-A-225/7 (5052) (	)R
QQ-A-225/8 (6061) OR QQ-A-200/8 (6061) OR QQ-A-225/1 (1100)	
(REF. DART MATERIAL SPEC M6061T6R0.000)	
2) FINISH: CHÉMICAL CONVERSION COAT PER DART QSI 005 4.1	
POWDER COAT WHITE GLOSS (4.3.5.1) PER DART QSI 005 4.3	
) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED	
i) UNITS: INCHES UNLESS OTHERWISE NOTED	
s) BREAK SHARP EDGES: 0.005 TO 0.010 MAX	
i) IDENTIFICATION: N/A	
r) WEIGHT: N/A	
,	

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DESIGN AP DRAWN DRAWING NO. CHECKED REV. E D3492 MFG. APPR. SHEET 2 OF 2 APPROVED TITLE SCALE PLUG DE APPR. DATE 13.08.08 COPYRIGHT © 2007 BY DART AEROSPACE LTD
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